

# SYSTEM AND METHOD FOR AUTOMATIC PRIVATE IP ADDRESS SELECTION

## ABSTRACT OF THE DISCLOSURE

[0029] A system and method for automatically selecting and assigning private IP addresses to locally networked devices are provided whereby a mechanism exists to prevent an overlap in private IP addresses assigned to a gateway device and to the various locally networked devices. An IP module of the gateway device determines if a default private IP address space allotted to the networked devices overlaps with the private IP address assigned to the gateway device by an ISP. Should an overlap occur, the IP module iterates through available private IP address spaces and selects a largest non-overlapping block from which private IP addresses may be parceled out to the networked devices.